

**ARMY
SYSTEM TRAINING PLAN (STRAP)
FOR THE

TRANSPORTATION COORDINATORS'
AUTOMATED INFORMATION
FOR MOVEMENTS SYSTEM II
(TC-AIMS II)**



PREPARED BY: Approved 26 April 2002

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VERSION 2

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**SYSTEM TRAINING PLAN (STRAP)
FOR THE**

TRANSPORTATION COORDINATORS' AUTOMATED INFORMATION FOR MOVEMENTS SYSTEM II (TC-AIMS II)

1. SYSTEM DESCRIPTION. The Transportation Coordinators' Automated Information for Movements System (TC-AIMS II) will provide Unit Movement Officers (UMO), Theater Movement Control/Mode Operator personnel, and Installation Transportation Officers (ITOs) in the Department of Defense (DoD) with a single, effective, efficient Automated Information System (AIS). TC-AIMS II will perform transportation management for the movement of units in contingencies and in day-to-day operations within the Defense Transportation System (DTS) (e.g., passenger management, cargo management, and mode management and movement control). It will provide support in three broad functional areas: Unit Movement, Installation Transportation Management, and Theater Movement Control/Mode Operations.

a. Unit Movement. TC-AIMS II will include automated support to assist unit commanders to create, maintain, manage, and update unit equipment, personnel lists and deployment databases. It will also facilitate planning and execution of organic movements. TC-AIMS II will incorporate a mechanism for the identification of assets and requirements to source force deployment / redeployment during deliberate and crisis action planning. It will provide tools to support continuous data processing management, planning and execution of deployments, and asset tracking. Transportation planning will start with the establishment of unit movement requirements and end with the arrival of required assets at a destination point. The planning function will include preparation for and execution of convoys (assigning, loading, staging, moving, controlling, coordinating, tracking, etc.). In addition, the Unit Move function will support highway, rail, air, and ship loading.

b. Installation Transportation Office/Traffic Management Office. The ITO/TMO domain will include functions that support transportation requirements, procure commercial carrier support, capture historical shipment information, and track unit moves during day-to-day operations. These functions will provide automated support capabilities to the transportation coordinator for receiving, packaging, documenting, coordinating, managing, tracking, and transporting of cargo and passengers. It will also include automated support tools to assist in load planning and execution, including tracking inbound/outbound shipments and passing data to other systems, as required.

c. Theater Movement Control and Mode Operations. TC-AIMS II will provide movement control organizations within a theater of operations with an automated capability to forecast the arrival of inter-theater cargo and containerized shipments, maintain visibility of command interest cargo throughout the theater, and provide for intra-theater movement of cargo and personnel. Movement control elements will have the capability to coordinate and provide transportation services to shippers, carriers, and receiving activities. Automated functions will include documenting transportation movement requests, tasking mode operators, forecasting and reporting container and cargo movements. Mode operators will have the automated capability to receive

commitments, task specific assets, and maintain fleet asset status data. Other capabilities will include scheduling and de-conflicting convoy movements, maintaining unit location data, and maintaining in-transit cargo and asset movement visibility.

d. In-Garrison Concept. In garrison, TC-AIMS II will use database rollup procedures to achieve a near-synchronous commonality between data residing on the nodes and the server. The user components will run on the laptop personal computer (PC) workstations, while the server components will run on a central server.

e. Deployment Operational Concept. In a deployed environment, workstation and server components will run on a deployed standalone/notebook computer. In a single notebook environment, communications between the user node and server components will bypass other users, which comprise the network infrastructure. However, to support operation in a deployed server configuration, each notebook will be configured with the network components. Thus, any notebook will be able to operate as a stand-alone system, or as a server. This configuration both maximizes the flexibility of the architecture and avoids possible single point failures when sufficient notebooks are deployed. And, as the hardware configuration is driven by the requirements of stand-alone operation, this operational concept provides additional configuration options at no additional cost.

f. The system will be fielded down to battalion and separate company level.

g. TC-AIMS II hardware and system software architecture is driven by the need to provide transportation support in garrison and at deployment locations. The garrison hardware configuration will be based on an environment with a database server and PC workstations. To support initial deployment operations, TC-AIMS II may be executed in a stand-alone notebook configuration. To satisfy the need for both garrison and deployment operations, TC-AIMS II will be developed to run in both a Windows NT server environment and Windows NT notebook environment with laser and label printers, Automated Information Technology (AIT) and telecommunications. The need to develop TC-AIMS II to run in these environments allows several alternative hardware/software combinations for the fielding of TC-AIMS II throughout the Joint Services. Figure 1-1 illustrates the range of hardware configurations available in these operating environments. Each of these alternatives is discussed in subsequent paragraphs.

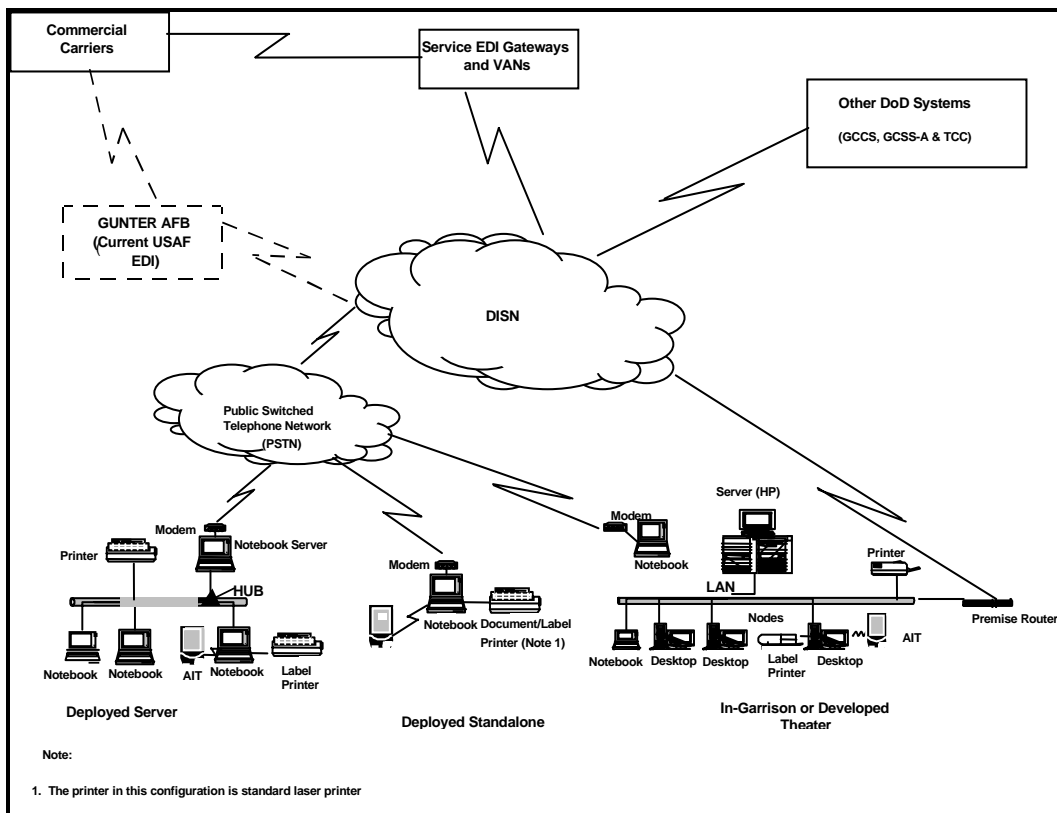


Figure 1-1: TC-AIMS II Hardware Architecture Configuration

h. The in-garrison system configuration will consist of a Windows NT network architecture that can be employed at multiple sites. For larger bases where existing facilities are determined inadequate to support deployed units on a single Local Area Network (LAN) setup or on bases where the available communications bandwidth is insufficient for the TC-AIMS II communications traffic, a deployed garrison configuration is established to augment the in-garrison system. Notebook workstations can be added to this configuration to support deployment in a developed theater. The database on the deployed server would need to be downloaded from the in-garrison server prior to deployment in order to replicate the database on the garrison server.

i. A single notebook provides the capabilities needed for initial deployment. However, as the transportation service requirements grow or as additional units arrive with individual notebooks, a Deployed Server configuration could be established. In this configuration, the database environment is replicated similar to the in-garrison server environment by interconnecting the notebooks, with one notebook operating as the server.

j. All hardware will require a CD-ROM and a sound card with speakers to support interactive multimedia instruction (IMI).

k. Software. Functional application requirements will be met by a combination of Commercial-Off-The-Shelf (COTS) integrated with Government-owned software

(Government-Off-The-Shelf (GOTS)) software. The contract software developers will handle new development and enhancements. Software resources associated with the TC-AIMS II system are described in the subparagraphs that follow.

(1) Windows NT is the COTS PC and larger operating system which will be used for TC-AIMS II. It provides numerous system services such as file management, network operations, access to peripheral devices, and system security.

(2) Sybase will be the COTS Relational Data Base Management System (RDBMS) software used by TC-AIMS II; it provides for storage and retrieval of computerized information.

(3) Application Software. The following information is provided for a historical perspective of baseline capabilities.

(a) ITO/TMO functions will be captured from the Air Force's Cargo Movement Operations System (CMOS). CMOS provides facilities to plan, document, and manage outbound and inbound cargo, as well as plan, schedule, and monitor the execution of transportation activities in support of deployment and reception of forces. The system will accumulate and aggregate shipment item data provided by electronic interface and manual entry; track the completion of transportation actions; prepare and print movement documentation; prepare and transmit advance shipment notification to all involved activities; and prepare and transmit system reports.

(b) The Unit Move functions will be captured from the Marine Corps' Marine Air Ground Task Force (MAGTF) Deployment Support System (MDSS) II and TC-AIMS modules of the MAGTF Logistics Automated Information System (LOGAIS) system. MDSS II is used to create and maintain a unit's database of assigned equipment and personnel, source force requirements, create lists of deploying equipment and personnel, assign equipment and personnel to specific carriers for both sea and air movements and pass load plan data to aircraft and ship load planning systems. TC-AIMS uses the LOGAIS database to manage organic movement requests from the units and provides an automated ability to plan, coordinate, manage and execute MAGTF movement operations. It provides the ability to build convoys (equipment and routes), and initiate movement of the equipment using organic or ITO/TMO assets. Further, TC-AIMS provides interfaces to mode clearance and port systems for manifesting.

(c) Load planning will be accomplished by interfacing with the Automated Air Load Planning System (AALPS) for air loading and Integrated Computerized Deployment System (ICODES) for ship loading. Transportation Coordinators' Automated Command and Control Information System (TC-ACCIS) rail loading functionality will be incorporated. Each of these systems provides semi-automated facilities for the placement of cargo and personnel on transportation vehicles, provide textual and graphical load plans for use in loading and provide manifests for In-Transit Visibility/Total Asset Visibility (ITV/TAV).

(d) Convoy planning will include the GOTS functionality captured from the Department of the Army Movements Management System (DAMMS). It provides the

capability to plan convoys (including vehicle assets and routes), create movement schedules and coordinate with the host country. The GOTS maintains the highway regulation Geographical Information System data, data parameter tables and simulations in the theater of operations, maintains the convoy data for corps units, and schedules/deconflicts multiple convoys in a theater of operations.

- l. Army Modernization Information Memorandum (AMIM) Number: None assigned.
- m. New Equipment Training Plan (NETP) Number: None assigned.
- n. First Unit Equipped Date: 2nd Quarter, FY 02.

2. TARGET AUDIENCE. TC-AIMS II will be fielded as a General-Purpose User (GPU) system. A special Military Occupational Specialty (MOS), Additional Skill Identifier (ASI), or civilian career field is not authorized for general system operators/users. The 88 series MOS has been identified as the prime user of the system for the ITO/TMO and Theater Movement Control/Mode Operations functions. Civilian/Contractor personnel will also regularly operate the ITO/TMO functions. The largest user, however, will be the general-purpose user that operates the UMO functions. Units will be responsible for sustainment training subsequent to receiving New Equipment Training (NET). Training Support Packages (TSP) and Distributed Training Vehicles (DTV), explained in more detail later in this STRAP, will be the primary tools.

3. ASSUMPTIONS.

- a. Funding for the development of training products will be available from the beginning.
- b. All training products will make maximum use of advanced technology to develop web-resident distributed training vehicles (DTV) modules, performance support system (PSS) tools, and other interactive multimedia instruction (IMI) products. This training will be supported by a task list, program of instruction, lesson plans, end user manuals, DTV, and IMI that can be used on any Windows based operating system (not the prime system) to assist units in conducting sustainment training.
- c. The Materiel Developer IAW CASCOM Training Directorate (TD) guidance will develop required manuals, training strategies, and products to support NET. All training products will be developed using the Automated Systems Approach to Training (ASAT) and will be easily adaptable for institutional training development and unit sustainment training. Training and Doctrine Command (TRADOC) proponent schools will review, validate, and approve all training materials.
- d. The introduction of TC-AIMS II training should require no increase in MOS skill requirements.

e. The 8th Brigade, United States Army Transportation School (USATSCH), Fort Eustis VA will be the Army's single service school functional trainer for TC-AIMS II operators. Resident functional TC-AIMS II training will be available to the joint deployment community.

f. The existing legacy training programs for TC ACCIS and DAMMS will discontinue and switch over to TC-AIMS II training on a date to be determined. The intent is that any TCACCIS and DAMMS training will be done in the units as on-the-job training. All school graduates will be trained on the use of TC-AIMS II.

g. Training pre-requisites for attending the TC-AIMS II New Equipment Training (NET) courses during fielding are as follows:

(1) Unit Movements Level One (UMO) and Unit Movements Level Two (ICUMO/UMC) NET Courses:

(a) Currently serving on orders as the unit's primary or alternate UMO or will be assigned these duties upon completion of TC-AIMS II training.

(b) Must be in the grade of E-6 or above (E-5 for alternate UMO).

(c) Completion of either the resident or web based UMO course or equivalent Major Command (MACOM) sponsored course. (For web based training go to <http://www.transchool.eustis.army.mil/training/web/Webview.htm>)

(d) Hold at least a SECRET security clearance and have a minimum of 1 year retainability.

(2) System Administrator/Database Administrator NET Course:

(a) Level 1 experience as defined by HQDA message dated 160639Z Dec 98, Subject: US Army Systems Administrator (SA) Certification Training. Level 1 is defined as "An SA with zero to one year of experience administering the relevant operating system, formal training for the operating system and command language (commercial or government courses), strong customer relation skills". The operating system for TC-AIMS II is currently Microsoft NT, but will change to Microsoft 2000. Users can obtain this training on-line by completing the registration process for Army e-Learning training. Registration has been automated with the Army Training Requirements and Resources System (ATRRS). Not only does ATRRS verify your eligibility for the program, it will also post successfully completed courses to the user's official ATRRS training record. The program continues at no cost to the individual or their organization. All active duty soldiers, members of the National Guard or Reserve as well as all Department of the Army civilian employees are authorized to access this training. The training can be obtained at the following website: <http://www.atrrs.army.mil/channels/eLearning/smartforce>. The user must first establish an account on the Army Knowledge Online website:

<http://www.us.army.mil>, before registering with the Army Training Requirements and Resources System (ATTRS).

(b) Phase One Security Certification. References for Criteria for SA Security Certification are:

(1) DISC4 message, DTG 060727Z May 98, Subject: Security Licensing for personnel who use, administer, manage, and secure DA information systems and networks.

(2) DISC4 message, DTG 051606Z Mar 98, Subject: Security training for systems administrators and network managers.

(3) ASDC31 memorandum, dated 29Jun98, Subject: Information assurance training and certification.

(c) Phase One Security Certification requires successful completion of either of the courses listed below:

(1) Free Information Assurance Training Products (CD sets, etc.). Follow link <http://iase.disa.mil> to Free IA Training Products or go directly to: <http://iase.disa.mil/eta/index.html>. Commercial: 703-882-1709 DSN:381 Fax: 703-882-2814. E-mail: DODIAETA@ncr.disa.mil

(2) The Army Information Assurance Manager (IAM), System Administrator and Network Manager (SAS/NMS) Level 2 course, or the Army Information Assurance Security Officer (IASO) Level 1 course. Follow the link <http://ia.gordon.army.mil>. POC: Phyllis Bailey: 703-607-5890

h. All training materials will be updated and maintained by the PM for the life of the system.

i. DTV and IMI training materials will be ready from the start of the training process.

j. Automatic Identification Technology (AIT) is considered in integral part of TC-AIMS II and will be trained as part of the system.

4. TRAINING CONSTRAINTS.

a. All currently envisioned training is contingent upon 100% availability of the resources, to include world-wide web (WWW) access, as outlined in this STRAP and its annexes.

b. TRADOC schools are currently constrained from adding hours to existing courses. Existing courses for the legacy systems will be replaced by TC-AIMS II training;

familiarization training will be inserted into existing professional development courseware. The change over from existing legacy systems will be determined by the fielding of the TC-AIMS II system. The TC-AIMS II system is crucial to performing in-transit visibility and total asset visibility during strategic deployment and dominant maneuver operations. If it is determined that additional training hours will be required to support TC-AIMS II training, TRADOC will be notified of time requirements and trade-off of time will be accomplished as required.

c. TC-AIMS II software is being incrementally developed and fielded. TC-AIMS II training must be dynamic and support frequent modifications to the software.

d. The system must be designed with simplicity to allow the identified job series (General Purpose User) to operate/maintain the system with minimum skill decay. The system software must prohibit improper system operation that may adversely affect mission performance. The system must operate without jeopardizing the operator's ability to accurately and easily operate the system to standard. High-risk tasks will be identified for trade-off or redesign during task analysis. Multimedia training products will be provided with the system for maintenance of skill proficiency.

e. Operator maintenance of hardware and software will be identified in developing the task selection matrix. Skills identified must not be at a complexity level that exceeds the operator's capability or provide no skill creep for the MOS, as determined during the analysis process. The system developer must redesign the system if the task complexity exceeds the user's learning capability. Item will be included in training operational test readiness evaluation.

f. Reading Grade Level (RGL). RGL for all support documents, to include the training package, will not exceed the 9th grade reading level. This reading grade level will be measured in accordance with AR 25-30, The Army Integrated Publishing and Printing Program.

g. Manpower constraints. The system must exist with current manpower limitations.

h. Manpower and Personnel Integration (MANPRINT) compliance. Additional training constraints may be added as the System MANPRINT Management Plan (SMMP) tracks the development of TC-AIMS II through MANPRINT Joint Working Groups. Any additional training constraints will be documented in both the STRAP and the SMMP.

i. Schoolhouse resources. Schoolhouse training is constrained by the availability of trained instructors, equipped classrooms, and available hours.

j. SET Resources. SET may be constrained by lack of trained instructors, training hardware, and TDY resources to accomplish on-site training.

5. TRAINING CONCEPTS (AC/RC).

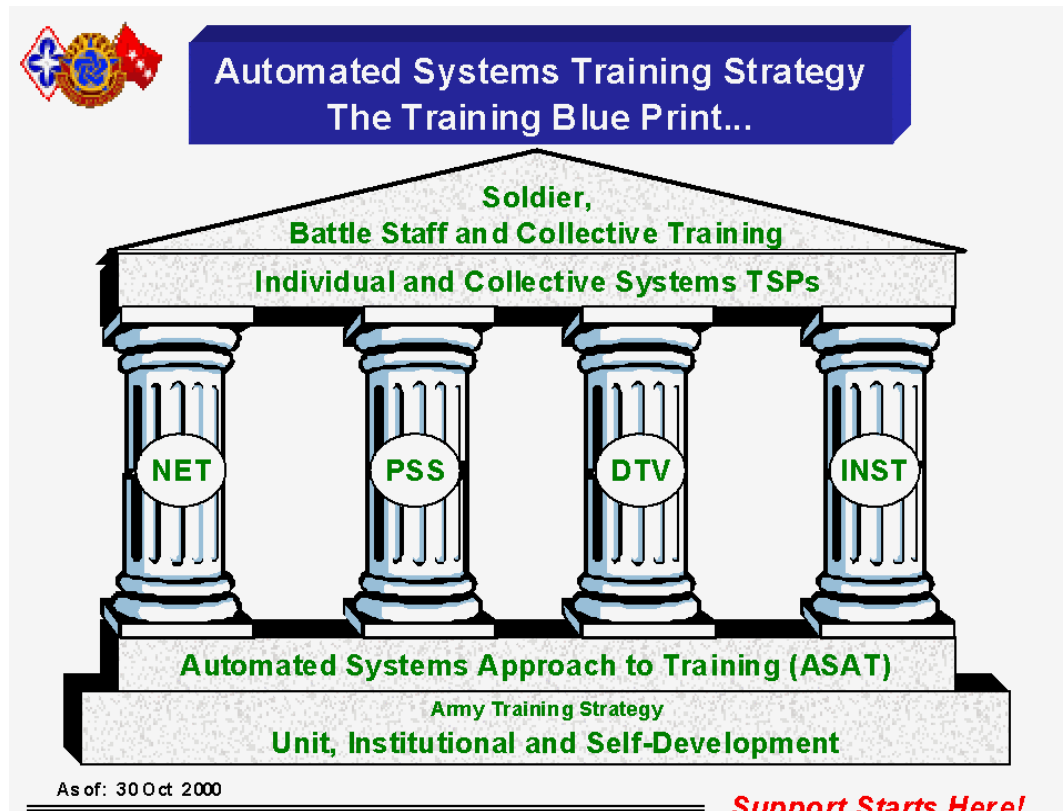


Figure 5-1

a. TC-AIMS II training development will be in accordance with the systems approach for managing the development and integration of training for new systems (TRADOC Reg. 350-70). Training is based on a foundation of unit, institution and sustainment/self-development (Fig. 5-1). The training concept encompasses four distinct training areas, each with unique characteristics, but interdependent as they relate to the overall training strategy (Fig. 5-2). This will provide an explanation of the training terms as used in the training concept for TC-AIMS II. Briefly, they are:

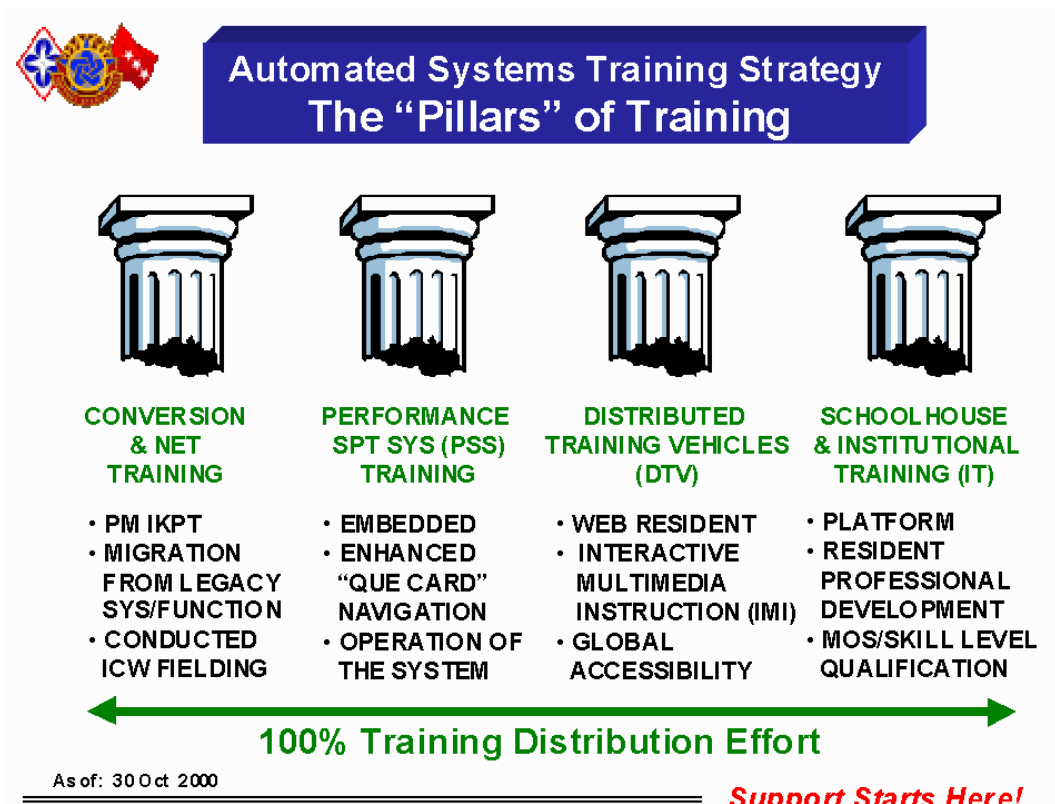


Figure 5-2

(1) NET: New Equipment Training is conducted by the PM, focusing on manually performed functions on the TC-AIMS II and providing Initial and Key Personnel Training (IKPT). It is predominantly designed to introduce and migrate personnel of a given skill level, job and/or grade structure to a new application system, and training objectives are tailored as such. In addition, NET is limited to a specific duration and number of personnel, resulting in an inherent "shelf life", and is the most costly form of training. As such, the personnel to system ratio (at each NET site) must be fully substantiated by an extensive analysis of the type application being fielded, availability/supportability of the job related target population, and the optimum entry-level skills/qualifications needed by potential students.

(2) PSS: Performance Support System training is developed by the PO in concert with the functionality, and embedded on the AIM enterprise system program software. PSS is a technology that helps users perform the operational task at hand. This type of technology is also known as Electronic Performance Support Systems (EPSS), Knowledge Support Systems (KSS), and other similar titles. PSS is "operationally oriented" training. PSS does this by interpreting a user's proficiency and integrating diverse system resources to act together in a partially interactive way with the user. A PSS tailors information presentation and assistance to the user's proficiency, manner of learning, immediate needs, and stimulates learning at all times. A PSS system combines technologies such as; hypertext help, courseware, Graphic User Interface (GUI), icons, color and audio cues, and a utility to integrate them (i.e., Proficiency Recognition File

(PRF)/algorithm, Intelligent Tutor System (ITS)/expert system, etc.). Technologies selected for a PSS system is the quality of the integrating utility. PSS technology primarily fulfills sustainment-training needs and partially satisfies ET. In the past, it was merely a "help" key, but the focus now is to incorporate enhanced que cards, or "coaches" that actually navigate the operator through tasks and processes, allowing for re-mediation as necessary. PSS will be weighted towards those operations deemed critical (and/or not frequently performed) and the priority is to ensure operators do not reach a "dead end" in the performance of their duties. It will increase accuracy and speed, providing real time training assistance to a divergent workforce of varied skill levels and proficiency. The comprehensiveness of PSS also influences the time and tasks involved in executing NET, and has an added feature of being updated concurrent with system software changes.

(3) DTV: DTVs are the final aspect of the training strategy, and perhaps the most versatile. Objectively, DTV products are to be web resident, and readily updated as software and/or systems evolve. This does not preclude, however, the use of other forms of distributed training, such as video tapes, tele-classrooms, CD's, etc., which accommodate unique circumstances, or when web technology cannot adequately support given courseware. To the degree possible, DTVs will encompass the full spectrum of synchronous, interactive multimedia, incorporating either individual or group training efforts, and accommodating on site re-mediation and feedback, as necessary. Depending upon the subject matter and target population, DTVs will be developed by the PM of a selected AIM enterprise system, or by separate agencies/contractors to support higher level training objectives that may encompass more than one system.

(4) School House and IT: Institutional Training is conducted at TRADOC schoolhouses, regional training centers or other educational facilities, and designed to fully incorporate the tasks and learning objectives of NET, PSS, using documented programs of instruction. The objectives are to produce MOS qualified soldiers, provide enhanced enlisted, warrant, and commissioned officer skill level instruction, and accommodate resident professional development training. Utilizing the full capability of PSS and DTVs (described above), the objective is to improve and expand on the breadth and depth of IT being conducted at formal training institutions.

(5) In summary, by using the concepts of the TRADOC distance learning program, Reimer Digital Library (RDL), Army Civilian Education System, and commercial technology, the opportunity presents itself to finally provide enhanced, holistic, and readily updated sustainment training DTV's to commanders and institutional facilities, without incurring the exorbitant costs/lag time traditionally encountered in the past.

b. Lessons learned from previous system deployments have identified the rapid perishability of required skills. This fact requires the use of intensive and frequent reinforcement training. Initial individual system training will be conducted through NET during the system deployment. Following NET, training institutions will provide awareness training and/or operational training to initial entry officer and enlisted personnel and professional development course attendees. The unit commander is

responsible for continued system proficiency through sustainment training utilizing PSS and DTVs.

c. Training products will be keyed on web-based IMI. This means of training will provide the most efficient way to ensure trainers/operators have access to the most current system training with the widest dissemination possible. TC-AIMS II software will be routinely updated as part of spiral system development process. This IMI provides the most convenient means of incorporating these updates into unit/sustainment training.

d. TC-AIMS II training will be integrated into the programs of instruction (POI) at the Transportation School, Fort Eustis, VA and will be tailored to meet the school's requirements. The school will include digital training that will vary from familiarization to basic capability orientation. The training in these courses will use the objective hardware and software.

e. Doctrine and Tactics Training (DTT). In addition to above, DTT will be included in Professional Development Training (i.e., commanders time, sergeants time) to ensure that all unit personnel are familiarized with system capabilities. The NET Team (NETT) members will not provide DTT to units receiving TC-AIMS II. DTT will consist of two CD-ROMs providing training on the Concepts and Operations and the Fundamentals of Deployment for TC-AIMS II. DTT will be provided to Commanders and Staff at each unit receiving TC-AIMS II.

f. Army Training and Doctrine Command (TRADOC) who, through the Army schools and training centers, is the basic source of instruction for automated information systems.

g. Training Test Support Packages (TTSP) will be developed for the operational tests, and the system training will be evaluated during each phase of development testing as prescribed in the TC-AIMS II Test and Evaluation Master Plan (TEMP) and AR 73-1, Test and Evaluation Policy.

h. The following training courses will be developed for TC-AIMS II:

(1) System/Database Administrator and System Support Training. This course provides instructions on how to accomplish the tasks of an automated systems administrator, a comprehensive overview of how TC-AIMS II operates as a system, file parameters, and an overview of the operating system commands that facilitate system management security and other functions. The course will cover operating systems fundamentals: Windows NT, PC hardware, troubleshooting and networking fundamentals, and database management.

(2) Level One Operator Training – BN/CO UMO. This course provides instructions to train the skills and knowledge necessary for the Battalion and Company Level UMO to operate the system while performing their UMO responsibilities, perform

unit level maintenance tasks; and set up, activate, check out, operate and maintain the equipment. Operation of the tutorial will be included in the training.

(3) Level Two Operator Training – ICUMO/UMC. This course provides instructions to train the skills and knowledge necessary for the Intermediate Command UMO and Unit Movement Coordinator level to operate the system while performing their responsibilities, perform unit level maintenance tasks; and set up, activate, check out, operate and maintain the equipment. Operation of the tutorial will be included in the training.

6. TRAINING STRATEGY (AC/RC)

a. NET Strategy [Warfighter Modernization (WARMOD)].

(1) The Project Manager (PM) TC-AIMS II will develop and provide a training team to conduct Level 1 and 2 operator training and SA/DBA system support training for each NET location. This will provide the initial transfer of the system information from the contractor to the required military/civilian personnel. Students selected to attend this training must be serving in positions that require the skills and knowledge provided by the training. They also should have familiarity with the Windows operating system. The training support packages will include all critical tasks identified during the Front End Analysis. The design and development efforts selected for training will developed in accordance with (IAW) TRADOC Reg. 350-70 Training Development Management, Processes and Products, TRADOC Pam 350-70-2 Multimedia Courseware Development Guide, and TRADOC Pam 351-13 Systems Approach To Training Analysis. Individual assistance will be provided as required, until the training team is satisfied that the operators and managers have the capability to exercise the system to its full capacity. The team will ensure full conversion and operation of the system prior to departure from the training installation. After initial training, the PM, TC-AIMS II will provide an on-call training team until the system fielding is complete.

(2) All training products developed by the primary contractor for use during NET will be approved/validated by the training developer during test player training for the operational test and evaluation. The products will make maximum use of IMI and distance learning formats. NET will continue until all Army units are fielded with the complete TC-AIMS II system package.

(3) The PM, TC-AIMS II will provide Instructor Key Personnel Training (IKPT) for TRADOC instructors, NETT members, the test community, and other key personnel. This provides instructors capable of training other personnel, maintaining the training base, and developing training materials to support both institutional and unit training. IKPT will be conducted at the earliest practical date to allow sufficient time for TRADOC to integrate the training into the appropriate courses.

b. Individual Training (Warrior).

(1) Concurrent with the TC-AIMS II NET, institutional training will be developed based on IKPT and integrated into TRADOC schools. Appropriate courses will provide TC-AIMS II user training for all military members. TC-AIMS II training at the institution will provide operator training for enlisted, non-commissioned officer and officers. Courses will be developed for Level 1 and 2 operators and system support personnel (system administrator/database administrator [SA/DBA]). Training will consist of programmed classroom instruction and supported by a mix of PSS, IMI, and DTV products.

(2) The PM will ensure all training products can easily be adapted for institutional training development and unit sustainment training. These products will support rapid train-up of replacement personnel in support of contingency operations. The PM will prepare these products IAW the Training Requirements Analysis System (TRAS) process, the TRADOC Systems Approach to Training (SAT), TRADOC Reg. 350-70, AR 350-35, and TRADOC Pam 350-XX. The PO will provide Task Selection Matrices (TSM), IAW TRADOC Pam 351-13, that meet the Army Centric Training Task List and scenario requirements. All task development products will be delivered using the ASAT database software, provided as government furnished equipment.

(3) The PM will develop IMI, which may be resident on the TC-AIMS II system (desired) and/or loaded onto a separate platform for training (required) IAW TRADOC Regulation 350-70. If the IMI is resident on the TC-AIMS II (enterprise) system, it must not interfere with normal business processes when operating.

(a) The PM will develop Performance Support System (PSS) Training integrated into the enterprise system. The goal of PSS is to increase user proficiency and productivity in the workplace. PSS will increase the accuracy, speed, and consistency of task completion, as well as provide real time help and training to a divergent workforce with varied skill levels. To accomplish this, the PSS will provide individual, on-demand performance support at the user workstation for performing functional tasks on the system. The development of the PSS will occur as part of the enterprise system development and will deploy concurrent with TC-AIMS II system.

(b) The PM will develop TSPs in the form of DTV for Level 1 and 2 operators and system support training (SA/DBA) (See Annex C). These products will be capable of residing on the Army Doctrine & Training Digital Library (ADTDL) or any other World Wide Web (www) server. These DTV courses will be capable of operating on the TC-AIMS II system or any other Windows 95/NT 4.0 or newer system. Each DTV course will download in no longer than two hours at 56.6 bits per second (BPS). These DTV courses will be IMI that emulate the actual “look and feel” of TC-AIMS II with complete accuracy and will have the capability to functionally evaluate soldier performance. They will be developed in compliance with the standards contained in the Shareable Courseware Object Reference Model (SCORM). The shareable object “building blocks” shall be as small as possible to facilitate interoperability among various

courses. The PM will deploy the DTV NLT six months after commencement of NET. The PM will update & deploy all training packages concurrent with functionality changes (SCP/ICP).

c. Unit/Sustainment Training (Warfighter). Unit sustainment training will focus on the use of PSS (i.e. que cards, “coaches”) as well as other training materials (manuals, lesson plans, etc.) left behind as part of the NET package. Web-based DTV courses, developed and updated by the PM and appropriate TRADOC agencies, will ensure field users have access to the most up-to-date training available. Individual skills will also be sustained during daily operations of the TC-AIMS II system. The unit commander is responsible to provide the training guidance, time, and resources for individuals to maintain a level of proficiency required by the appropriate common task. Continued sustainment training of the TC-AIMS II system is a critical aspect of maintaining operator proficiency. It is also incumbent on the unit commander/supervisors to account for normal personnel rotation and to ensure operator/maintainer skills are passed on to incoming personnel. Unique local requirements (i.e. language differences) will continue to be the responsibility of the requiring MACOM.

7. TRAINING PRODUCTS

a. Paper-Based Training. Paper-based training will be developed for designated tasks and those tasks not identified for ET. These packages must contain approved task lists, Programs of Instruction (POIs) and Lesson Plans (to include handouts, slides, practical exercises and tests).

b. Training Aids, Devices, Simulators, and Simulations. TC-AIMS II is a hardware and software system with a training capability in the form of PSS. However, TC-AIMS II web based distributed training software in the form of DTVs will be loadable on COTS classroom and personal computer for practice and sustainment training. Proponents, in conjunction with the PO, TADSS must consider incorporating TC-AIMS II functionality into their training systems. Upgrades to TC-AIMS II functionality contained in TADSS must be synchronized with releases of the operational software.

c. Multimedia Products. PSS and DTV products will offer individual, on-demand performance support at the workstation for performing all the functional tasks required by the user on the TC-AIMS II system. This will provide real time help and training to operators, supervisors, and support personnel. PSS will reside with the TC-AIMS II program. DTV will be available on either the actual TC-AIMS II CHS hardware or COTS classroom computer and able to be loaded onto PC windows based hardware platforms for training. The DTV must have capability to be used on any Window OS based personal computer (PC) with a sound card and CD-ROM drive. All IMI will be developed IAW MIL-PRF-29612A Training Data Products, TRADOC Reg. 350-70 Multimedia products and TRADOC Pam 350-70-2 Multimedia Courseware Development Guide. IMI training presentations will address unit employment of TC-AIMS II and its full integration into combat operations. Multimedia products must be specific to their target user audience and tailored to type organization.

d. Manuals. The following manuals will be developed for TC-AIMS II training:

(1) End User's Manual (EM). An End User's Manual will provide step-by-step procedures for the operation of the system. It is designed for the operator, who must accomplish a wide variety of tasks in the entry of data and specification of outputs.

(2) User's Manual (UM). The User's Manual will contain more detailed information as to file structures, formats, tables, processes and procedures. The manual is designed for the supervisor, system administrator and system support personnel. This manual is functionally oriented.

(3) System Administrator / Database Administrator Manual. This manual will provide step-by-step procedures for the management of the system. This manual covers operating systems, networking fundamentals, database management software, and troubleshooting. This manual is technically oriented.

(4) Communications Handbook. This handbook will provide the TC-AIMS II operator with the information necessary to effectively use the communications features of the system. It will contain information required for communications access to both garrison and tactical communications systems and how to configure files to effect incoming and outgoing traffic

(5) If COTS manuals are used, they should follow guidance in MIL-PRF-29612, Training Data Products. If the system is developed to meet Army requirements, and new manuals are to be developed to support the system, standards must follow DOD, Army, and TRADOC published guidelines

e. System hardware/software and/or components. The presence of the TC-AIMS II hardware and software systems in limited quantities for the institutions is essential to maintaining individual proficiency and adequate sustainment training. The availability of TC-AIMS II web based distributed training software in the form of DTVs loaded on COTS classroom and personal computer for practice and sustainment training is paramount.

8. TRAINING SUPPORT

a. Distance Learning Infrastructure. Web downloadable DTV will provide the primary means for TC-AIMS II individual skill proficiency and sustainment training. These DTV courses will operate on either similar type hardware platforms for training or the TC-AIMS II system hardware (but must not inhibit the enterprise system). Students must be able to download files in two hours or less at 56.6 KBPS rate. The DTV courses will emulate the actual "look and feel" of TC-AIMS II. At TRADOC institutions, the DTV modules will be LAN resident ensuring all classrooms have access to the most current software and training.

b. Facilities. Training will make use of TC-AIMS II installed on unit equipment and/or software loaded on LAN connected personal computers (PC) in a digital learning center environment.

c. Ammunition. Not applicable.

d. Other. N/A.

e. Training issues at risk.

(1) Emerging Army doctrine is fast paced. New organizational structures such as the Interim Brigade Combat Team (IBCT) are being developed and dictate differences in CSS structure. TC-AIMS II training must be flexible enough to take into account differences in new doctrine.

(2) Impact of TC-AIMS II on current professional development training courses in schools must be addressed for time and resources.

(3) The ability of the DTV training product to meet commanders' needs in sustaining soldier proficiency on TC-AIMS II must be evaluated.

(4) The system developer must have the capability to provide updates to the DTV and the PSS, which is resident on the prime system.

(5) Operators and system support personnel must receive training for multiple hardware configurations.

(6) Manuals and system screens must be developed to the minimum reading grade level of the target audience. All soldiers must receive proper validation/verification.

9. POST FIELDING TRAINING EFFECTIVE ANALYSIS (PFTEA)

a. A PFTEA is required to validate institutional and sustainment training. This validation will ensure mission requirements are being met. When funding permits, CASCOM TD will provide evaluation assistance in the form of on-site surveys and follow-up reporting. If resources are not available for this, feedback will be gathered through the use of mail-out questionnaires, telephonic interviews, help desk records from the Regional Automated Support Center (RASC), and user comments will be gathered. The feedback will be provided to all appropriate training elements and will serve as a basis for updating/ revising institutional and sustainment products.

b. Inherent in the design/fielding of AIS(s) are system changes. All system changes must undergo evaluation and most will require some form of testing. DA Pam 73-1, Test and Evaluation in Support of System Acquisition define the requirements for

evaluation/testing. A valid Test & Evaluation (T&E) program will be developed between the PO and training developers. The actual strategies will be dependent on the level of the changes.

ANNEX A
TARGET AUDIENCE DESCRIPTION/COURSES AFFECTED BY TC-AIMS II
SCHOOL: Transportation Center and School
LOCATION: Fort Eustis, Virginia

Target Audience/MOS	Course	Start Date
88N10	Traffic Mgmt Coordinator AIT	4QFY02 (32 hrs)
88N30	Traffic Mgmt Coordinator BNCOC	4QFY02 (16 hrs)
88N40	Traffic Mgmt Coordinator ANCOC	4QFY02 (16 hrs)
882A	Mobility Warrant Officer Basic	2QFY02 (130 hrs)
88A/B/C/D	88-55-C20-88A/C/D Trans Officer Basic Course	4QFY02 (8 hrs)
88A/B/C/D	Trans Officer Basic Qualification Course	4QFY02 (8 hrs)
General Purpose User	Air Deployment Planning Course	4QFY02 (4 hrs)
88A/B/C/D	88-10-C22 Combined Logistics Captains Career Course CLC3	4QFY02 (8 hrs)
88A/B/C/D	Reserve Component Trans. Officer Advance Course	4QFY02 (8 hrs)
General Purpose User	Unit Movement Officers Deployment Planning Course	4QFY02 (8 hrs)
General Purpose User	Mobilization Deployment Planning Course	4QFY02 (2 hrs)
General Purpose User	Strategic Deployment Planning Course	4QFY02 (4 hrs)
General Purpose User	TC-AIMS II Functional User Course	1QFY02 (80 hrs)
General Purpose User	System Administrator for TC-AIMS II Course	4QFY02 (40 hrs)
General Purpose User	Basic Freight Traffic Course	4QFY02 (24 hrs)
General Purpose User	Passenger Travel Specialist Course	4QFY02 (4 hrs)
General Purpose User	Integrated Computerized Deployment System (ICODES) Course	4QFY02 (4 hrs)
General Purpose User	MILSTAMP Course	4QFY02 (2 hrs)

ANNEX B

CATS INDIVIDUAL TRAINING STRATEGIES (WARRIOR)

1. **SCHOOL:** USATSCH
2. **MOS:** 88N10 Traffic Management Coordinator
3. **COURSE:** Traffic Management Coordinator AIT
4. **TRAINING STRATEGY:**
 - a. Narrative:

(1) TC-AIMS II will be incorporated into the existing Traffic Management Coordinator AIT starting 4Q FY02. Approximately 102 hours of TC-AIMS II instruction is planned. This instruction will concentrate on hands-on training using TC-AIMS II to automate unit deployment operations in both CONUS and OCONUS and to train strategic dominant maneuver information management concepts to the “movers”.

(2) Mobile Training Team (MTT): An MTT may be provided to Active component and RC units with specific training needs, provided that personnel resources are available, funding is provided by the requesting unit and the required coordination to trap workload is accomplished with TRADOC.
 - b. Location: Fort Eustis, VA
 - c. Lesson Plans: 3Q FY 02
 - d. Course Start: 4Q FY 02

(1) Year:	FY 02	FY 03	FY04	FY05
(2) Classes:	19	19	19	19
(3) Student Load:	30	30	30	30
5. **ANALYSIS REQUIREMENTS:** Contractor Logistics Support Analysis (LSA)
6. **TRAS DOCUMENTS:**
 - a. CAD
 - b. POI
7. **TRAINING EQUIPMENT / SUPPORT REQUIRED:** See ANNEX E

ANNEX B

CATS INDIVIDUAL TRAINING STRATEGIES (WARRIOR)

1. **SCHOOL:** USATSCH
2. **MOS:** 88N30 Traffic Management Coordinator
3. **COURSE:** Traffic Management Coordinator BNOC
4. **TRAINING STRATEGY:**

- a. Narrative:

- (1) TC-AIMS II will be incorporated into the existing Traffic Management Coordinator BNOC starting 4Q FY 02. Approximately 8 hours of TC-AIMS II instruction is planned. This instruction will concentrate on hands-on training using TC-AIMS II to automate unit deployment operations in both CONUS and OCONUS and to train strategic dominant maneuver information management concepts to the “movers”.

- (2) Mobile Training Team (MTT): An MTT may be provided to Active component and RC units with specific training needs, provided that personnel resources are available, funding is provided by the requesting unit and the required coordination to trap workload is accomplished with TRADOC.

- b. Location: Fort Eustis, VA
- c. Lesson Plans: 3Q FY 02
- d. Course Start: 4Q FY 02

(1) Year:	FY 02	FY 03	FY04	FY05
(2) Classes:	10	10	10	10
(3) Student Load:	15	15	15	15

5. **ANALYSIS REQUIREMENTS:** Contractor LSA
6. **TRAS DOCUMENTS:**
 - a. CAD
 - b. POI
7. **TRAINING EQUIPMENT / SUPPORT REQUIRED:** See ANNEX E

ANNEX B

CATS INDIVIDUAL TRAINING STRATEGIES (WARRIOR)

1. **SCHOOL:** USATSCH
2. **MOS:** 88N40 Traffic Management Coordinator
3. **COURSE:** Traffic Management Coordinator ANOC
4. **TRAINING STRATEGY:**

- a. Narrative:

(1) TC AIMS will be incorporated into the existing Traffic Management Coordinator ANOC starting 4Q FY 02. Approximately 8 hours of TC-AIMS II instruction is planned. This instruction will concentrate on hands-on training using TC-AIMS II to automate unit deployment operations in both CONUS and OCONUS and to train strategic dominant maneuver information management concepts to the “movers”.

(2) Mobile Training Team (MTT): An MTT may be provided to Active component and RC units with specific training needs, provided that personnel resources are available, funding is provided by the requesting unit and the required coordination to trap workload is accomplished with TRADOC.

- b. Location: Fort Eustis, VA
- c. Lesson Plans: 3Q FY 02
- d. Course Start: 4Q FY 02

(1) Year:	FY 02	FY 03	FY04	FY05
(2) Classes:	5	5	5	5
(3) Student Load:	10	10	10	10

5. **ANALYSIS REQUIREMENTS:** Contractor LSA
6. **TRAS DOCUMENTS:**
 - a. CAD
 - b. POI
7. **TRAINING EQUIPMENT / SUPPORT REQUIRED:** See ANNEX E

ANNEX B
CATS INDIVIDUAL TRAINING STRATEGIES (WARRIOR)

1. **SCHOOL:** USATSCH
2. **MOS:** 882A Mobility Warrant Officer
3. **COURSE:** Mobility Officer Warrant Officer Basic Course (MOWOBC)
4. **TRAINING STRATEGY:**
 - a. Narrative: TC-AIMS II instruction will be incorporated into the training development and course design for the Mobility Warrant Officer Course. The course is estimated to be 48 hours. All other details are TBD.
 - b. Location: Fort Eustis, VA
 - c. Lesson Plans: 1Q FY 01
 - d. Course Start: 2Q FY 01

(1) Year:	FY 01	FY 02	FY03	FY04
(2) Classes:	2	2	2	2
(3) Student Load:	20	20	20	20
5. **ANALYSIS REQUIREMENTS:** Contractor LSA
6. **TRAS DOCUMENTS:**
 - a. CAD
 - b. POI
7. **TRAINING EQUIPMENT / SUPPORT REQUIRED:** See ANNEX E.

ANNEX B

CATS INDIVIDUAL TRAINING STRATEGIES (WARRIOR)

1. **SCHOOL:** USATSCH
2. **MOS:** 88A/B/C/D
3. **COURSE:** 88-55-C20-88A/C/D Transportation Officer Basic Course
4. **TRAINING STRATEGY:**

- a. Narrative:

(1) TC-AIMS II will be incorporated into the existing Transportation Officer Basic Course starting 4Q FY 02. Approximately 40 hours of TC-AIMS II instruction are planned. This instruction will concentrate on hands-on training using TC-AIMS II to automate unit deployment operations in both CONUS and OCONUS and to train strategic dominant maneuver information management concepts to the “movers”.

(2) Mobile Training Team (MTT): An MTT may be provided to Active component and RC units with specific training needs, provided that personnel resources are available, funding is provided by the requesting unit and the required coordination to trap workload is accomplished with TRADOC.

- b. Location: Fort Eustis, VA
- c. Lesson Plans: 3Q FY 02
- d. Course Start: 4Q FY 02

(1) Year:	FY 02	FY 03	FY04	FY05
(2) Classes:	7	7	7	7
(3) Student Load:	50	50	50	50

5. **ANALYSIS REQUIREMENTS:** Contractor LSA
6. **TRAS DOCUMENTS:**
 - a. CAD
 - b. POI
7. **TRAINING EQUIPMENT / SUPPORT REQUIRED:** See ANNEX E.

ANNEX B
CATS INDIVIDUAL TRAINING STRATEGIES (WARRIOR)

1. **SCHOOL:** USATSCH
2. **MOS:** General Purpose User (GPU)
3. **COURSE:** Air Deployment Planning Course
4. **TRAINING STRATEGY:**

a. Narrative: TC-AIMS II will be incorporated into the existing Air Deployment Planning Course starting 4Q FY 02. Approximately 4 hours of TC-AIMS II instruction are planned. This instruction will concentrate on hands-on training using TC-AIMS II to assist in developing skills required for planning, organizing and conducting unit air movements.

- b. Location: Fort Eustis, VA
- c. Lesson Plans: 3Q FY 02
- d. Course Start: 4Q FY 02

(1) Year:	FY 02	FY 03	FY04	FY05
(2) Classes:	7	7	7	7
(3) Student Load:	25	25	25	25

5. **ANALYSIS REQUIREMENTS:** Contractor LSA
6. **TRAS DOCUMENTS:**
 - a. CAD
 - b. POI
7. **TRAINING EQUIPMENT / SUPPORT REQUIRED:** See ANNEX E

ANNEX B
CATS INDIVIDUAL TRAINING STRATEGIES (WARRIOR)

1. **SCHOOL:** USATSCH
2. **MOS:** 88A/B/C/D
3. **COURSE:** Transportation Officer Basic Qualification Course
4. **TRAINING STRATEGY:**

a. Narrative: TC-AIMS II will be incorporated into the existing Transportation Officer Basic Qualification Course starting 4Q FY 02. Approximately 4 hours of TC-AIMS II instruction are planned. This instruction will concentrate on hands-on training using TC-AIMS II to automate unit deployment operations in both CONUS and OCONUS, and to train strategic dominant maneuver information management concepts to the “movers”.

- b. Location: Fort Eustis, VA
- c. Lesson Plans: 3Q FY 02
- d. Course Start: 4Q FY 02

(1) Year:	FY 02	FY 03	FY04	FY05
(2) Classes:	2	2	2	2
(3) Student Load:	20	20	20	20

5. **ANALYSIS REQUIREMENTS:** Contractor LSA
6. **TRAS DOCUMENTS:**
 - a. CAD:
 - b. POI
7. **TRAINING EQUIPMENT / SUPPORT REQUIRED:** See ANNEX E.

ANNEX B

CATS INDIVIDUAL TRAINING STRATEGIES (WARRIOR)

1. **SCHOOL:** USATSCH
2. **MOS:** 88A/B/C/D
3. **COURSE:** 88-10-C22 Combined Logistics Captain's Career Course (CLC3)
4. **TRAINING STRATEGY:**

a. Narrative:

(1) TC-AIMS II will be incorporated into the existing Combined Logistics Officer Advanced Course starting 4Q FY 02. Approximately 40 hours of TC-AIMS II instruction are planned. This instruction will concentrate on hands-on training. TC-AIMS II familiarization instruction is planned. This instruction will concentrate on TC-AIMS II capabilities to automate unit deployment operations in both CONUS and OCONUS and to train strategic dominant maneuver information management concepts to the "movers".

(2) Mobile Training Team (MTT): An MTT may be provided to Active component and RC units with specific training needs, provided that personnel resources are available, funding is provided by the requesting unit and the required coordination to trap workload is accomplished with TRADOC.

- b. Location: Fort Eustis, VA
- c. Lesson Plans: 3Q FY 02
- d. Course Start: 4Q FY 02

(1) Year:	FY 02	FY 03	FY04	FY05
(2) Classes:	9	9	9	9
(3) Student Load:	20	20	20	20

5. **ANALYSIS REQUIREMENTS:** Contractor LSA
6. **TRAS DOCUMENTS:**
 - a. CAD
 - b. POI
7. **TRAINING EQUIPMENT / SUPPORT REQUIRED:** See ANNEX E.

ANNEX B
CATS INDIVIDUAL TRAINING STRATEGIES (WARRIOR)

1. **SCHOOL:** USATSCH
2. **MOS:** 88A/B/C/D
3. **COURSE:** Reserve Component Transportation Officer Advanced Course
4. **TRAINING STRATEGY:**

a. Narrative: TC-AIMS II will be incorporated into the existing Reserve Component Transportation Officer Advanced Course starting 4Q FY 02. Approximately 8 hours of TC-AIMS II instruction are planned. This instruction will concentrate on hands-on training using TC-AIMS II to automate unit deployment operations in both CONUS and OCONUS and to train strategic dominant maneuver information management concepts to the “movers”.

- b. Location: Fort Eustis, VA
- c. Lesson Plans: 3Q FY 02
- d. Course Start: 4Q FY 02

(1) Year:	FY 02	FY 03	FY04	FY05
(2) Classes:	3	3	3	3
(3) Student Load:	90	90	90	90

5. **ANALYSIS REQUIREMENTS:** Contractor LSA
6. **TRAS DOCUMENTS:**
 - a. CAD
 - b. POI
7. **TRAINING EQUIPMENT / SUPPORT REQUIRED:** See ANNEX E.

ANNEX B

CATS INDIVIDUAL TRAINING STRATEGIES (WARRIOR)

1. **SCHOOL:** USATSCH
2. **MOS:** GPU
3. **COURSE:** Unit Movement Officer's Deployment Planning Course
4. **TRAINING STRATEGY:**

- a. Narrative:

(1) TC-AIMS II will be incorporated into the existing Unit Movement Officer's Deployment Course starting 3Q FY 02. Approximately 24 hours of TC-AIMS II instruction are planned. This instruction will concentrate on hands-on training using TC-AIMS II to automate unit deployment operations in both CONUS and OCONUS and to train strategic dominant maneuver information management concepts to the "movers".

(2) Mobile Training Team (MTT): An MTT may be provided to Active component and RC units with specific training needs, provided that personnel resources are available, funding is provided by the requesting unit and the required coordination to trap workload is accomplished with TRADOC.

- b. Location: Fort Eustis, VA
- c. Lesson Plans: 2Q FY 02
- d. Course Start: 3Q FY 02

(1) Year:	FY 02	FY 03	FY04	FY05
(2) Classes:	8	8	8	8
(3) Student Load:	23	23	23	23

5. **ANALYSIS REQUIREMENTS:** Contractor LSA
6. **TRAS DOCUMENTS:**
 - a. CAD
 - b. POI
7. **TRAINING EQUIPMENT / SUPPORT REQUIRED:** See ANNEX E.

ANNEX B
CATS INDIVIDUAL TRAINING STRATEGIES (WARRIOR)

1. **SCHOOL:** USATSCH
2. **MOS:** GPU
3. **COURSE:** Mobilization Deployment Planning Course
4. **TRAINING STRATEGY:**

a. Narrative: TC-AIMS II will be incorporated into the existing Mobilization Deployment Planning Course starting 4Q FY 02. Approximately 2 hours of TC-AIMS II instruction are planned. This instruction will concentrate on hands-on training using TC-AIMS II to automate unit deployment operations in both CONUS and OCONUS and to train strategic dominant maneuver information management concepts to the “movers”.

- b. Location: Fort Eustis, VA
- c. Lesson Plans: 3Q FY 02
- d. Course Start: 4Q FY 02

(1) Year:	FY 02	FY 03	FY04	FY05
(2) Classes:	5	5	5	5
(3) Student Load:	20	20	20	20

5. **ANALYSIS REQUIREMENTS:** Contractor LSA
6. **TRAS DOCUMENTS:**
 - a. CAD
 - b. POI
7. **TRAINING EQUIPMENT / SUPPORT REQUIRED:** See ANNEX E.

ANNEX B
CATS INDIVIDUAL TRAINING STRATEGIES (WARRIOR)

1. **SCHOOL:** USATSCH
2. **MOS:** GPU
3. **COURSE:** Strategic Deployment Planning Course
4. **TRAINING STRATEGY:**

a. Narrative: TC-AIMS II will be incorporated into the existing Combined Logistics Officer Advanced Course starting 4Q FY 02. Approximately 4 hours of TC-AIMS II instruction are planned. This instruction will concentrate on hands-on training using TC-AIMS II, both the information management and simulation capabilities of the system, to automate unit deployment operations in both CONUS and OCONUS and to train strategic dominant maneuver information management concepts to the “movers”.

- b. Location: Fort Eustis, VA
- c. Lesson Plans: 3Q FY 02
- d. Course Start: 4Q FY 02

(1) Year:	FY 02	FY 03	FY04	FY05
(2) Classes:	3	3	3	3
(3) Student Load:	20	20	20	20

5. **ANALYSIS REQUIREMENTS:** Contractor LSA
6. **TRAS DOCUMENTS:**
 - a. CAD:
 - b. POI
7. **TRAINING EQUIPMENT / SUPPORT REQUIRED:** See ANNEX E.

ANNEX B
CATS INDIVIDUAL TRAINING STRATEGIES (WARRIOR)

1. **SCHOOL:** USATSCH
2. **MOS:** GPU
3. **COURSE:** Transportation Coordinators' Automated Information for Movements System II (TC-AIMS II)

4. **TRAINING STRATEGY:**

a. Narrative: Functional TC-AIMS II will be taught to Level 1 and Level 2 system users 4Q FY 02. Approximately 80 hours of TC-AIMS II instruction are planned. This instruction will concentrate on hands-on training using TC-AIMS II, both the information management and simulation capabilities of the system, to automate unit deployment operations in both CONUS and OCONUS and to train strategic dominant maneuver information management concepts to the "movers".

- b. Location: Fort Eustis, VA
- c. Lesson Plans: 3Q FY 02
- d. Course Start: 4Q FY 02

(1) Year:	FY 02	FY 03	FY04	FY05
(2) Classes:	8	8	8	8
(3) Student Load:	20	20	20	20

5. **ANALYSIS REQUIREMENTS:** Contractor LSA

6. **TRAS DOCUMENTS:**

- a. CAD
- b. POI

7. **TRAINING EQUIPMENT / SUPPORT REQUIRED:** See ANNEX E.

ANNEX B
CATS INDIVIDUAL TRAINING STRATEGIES (WARRIOR)

1. **SCHOOL:** USATSCH
2. **MOS:** GPU
3. **COURSE:** System Administration for Transportation Coordinators' Automated Information for Movements System II (TC-AIMS II)
4. **TRAINING STRATEGY:**

a. Narrative: Systems Administration for TC-AIMS II will be taught to system administrators 4Q FY 02. Approximately 40 hours of TC-AIMS II systems administration instruction are planned. This instruction will concentrate on hands-on training using TC-AIMS II.

- b. Location: Fort Eustis, VA
- c. Lesson Plans: 3Q FY 02
- d. Course Start: 4Q FY 02

(1) Year:	FY 02	FY 03	FY04	FY05
(2) Classes:	3	3	3	3
(3) Student Load:	30	30	30	30

5. **ANALYSIS REQUIREMENTS:** Contractor LSA

6. **TRAS DOCUMENTS:**

- a. CAD:
- b. POI

7. **TRAINING EQUIPMENT / SUPPORT REQUIRED:** See ANNEX E.

ANNEX B
CATS INDIVIDUAL TRAINING STRATEGIES (WARRIOR)

1. **SCHOOL:** USATSCH
2. **MOS:** GPU
3. **COURSE:** Basic Freight Traffic Course
4. **TRAINING STRATEGY:**

a. Narrative: TC-AIMS II will be incorporated into the existing Basic Freight Traffic Course starting 4Q FY 02. Approximately 24 hours of TC-AIMS II instruction are planned. This instruction will concentrate on hands-on training using TC-AIMS II, both the information management and simulation capabilities of the system, to automate unit deployment and ITO freight operations in both CONUS and OCONUS and to train strategic dominant maneuver information management concepts to the “movers”.

- b. Location: Fort Eustis, VA
- c. Lesson Plans: 3Q FY 02
- d. Course Start: 4Q FY 02

(4) Year:	FY 02	FY 03	FY04	FY05
(5) Classes:	5	5	5	5
(6) Student Load:	20	20	20	20

5. **ANALYSIS REQUIREMENTS:** Contractor LSA
6. **TRAS DOCUMENTS:**
 - a. CAD:
 - b. POI
7. **TRAINING EQUIPMENT / SUPPORT REQUIRED:** See ANNEX E.

ANNEX B
CATS INDIVIDUAL TRAINING STRATEGIES (WARRIOR)

1. **SCHOOL:** USATSCH
2. **MOS:** GPU
3. **COURSE:** Passenger Travel Specialist Course
4. **TRAINING STRATEGY:**

a. Narrative: TC-AIMS II will be incorporated into the existing Passenger Travel Specialist Course starting 4Q FY 02. Approximately 4 hours of TC-AIMS II instruction are planned. This instruction will concentrate on hands-on training using TC-AIMS II, both the information management and simulation capabilities of the system, to automate unit deployment operations in both CONUS and OCONUS and to train strategic dominant maneuver information management concepts to the “movers”.

- b. Location: Fort Eustis, VA
- c. Lesson Plans: 3Q FY 02
- d. Course Start: 4Q FY 02

(7) Year:	FY 02	FY 03	FY04	FY05
(8) Classes:	5	5	5	5
(9) Student Load:	20	20	20	20

5. **ANALYSIS REQUIREMENTS:** Contractor LSA
6. **TRAS DOCUMENTS:**
 - a. CAD:
 - b. POI
7. **TRAINING EQUIPMENT / SUPPORT REQUIRED:** See ANNEX E.

ANNEX C

UNIT/SUSTAINMENT TRAINING

UNIT/SUSTAINMENT TRAINING		REQUIREMENTS CONTROL SYMBOL		
Requirements Determination and Acquisition Process LCM PHASE:		SYSTEM: TC-AIMS II		
1. INDIVIDUAL TRAINING				
a. Strategy (How individual skills will be sustained) : Initial training will be conducted by New Equipment Training Team at gaining units. The gaining unit will select individuals for Level 1 and 2 operators and system support personnel training. Individuals within each training group will be taught appropriate skills/knowledge using TC-AIMS II as an operational tool in performing their missions. Training will integrate as many hands-on situationally-based training events as possible, taking advantage of distance learning products and initiatives. To assist in sustaining individual skills, web-based distributed courseware and help screens/ coaches will be available. PM,TC-AIMS II will develop the distributed training vehicle (DTV) computer-based training courseware that is web-based and platform independent. Additionally, CASCOM will update existing soldiers’ manuals, field manuals, and develop Extension Training Material for sustainment of the unit training.				
b. Products required to sustain individual skills				
PRODUCT	DATE REQUIRED	RESOURCE DOCUMENTS	RESPONSIBLE AGENCY	Notes
NET Products: Level 1 Operator Level 2 Operator System Spt Personnel	Ongoing with cyclic updates as software functionality evolves.	Software End Users Manual	PM-TCAIMS II	
PSS: Operator Tasks System Spt Tasks	1Q, FY 02	Software End Users Manual	PM-TCAIMS II	
DTV: Level 1 Operator Level 2 Operator System Spt Personnel	DTV’s due 2Q, FY02	NET Training Plans Software End Users Manual	PM-TCAIMS II	
Functional Training Level 1 and 2 Course System Spt. Personnel Course	1Q, FY02	NET Training Plans Software End Users Manual	Deployment Systems Department (DDSD)	
Software Central Operations Manual (SCOM)	1Q, FY02	Software Central Operations Manual	PM-TCAIMS II	
Communications Handbook	1Q, FY02		PM-TCAIMS II	
Software Users Manual (SUM)	1Q, FY02	Software Users	PM-TCAIMS II	

2. COLLECTIVE TRAINING

a. Strategy. The individual tasks identified for TC-AIMS II will support several collective tasks, but no new tasks have been identified because of TC-AIMS II. The products required to sustain individual skills have been identified in individual training above. An additional opportunity for collective training is the planned CSS Virtual Operations, Planning and Rehearsal and Training Facility. This STRICOM/CASCOM initiative will help to fill the current void in CSS collective training in support of the Warfighter's operational mission. It will provide a broad range of benefits including advanced collective training in CSS tasks through a synthetic operational environment to stimulate and support power projection planning and support for the exploration and analysis of future CSS operational concepts and systems. The training laboratory is planned to commence operations in FY 2001 at Ft. Lee, VA.

ANNEX D

TRAINING DEVELOPMENT MILESTONE SCHEDULE

ITEM	COMPLETED	EXPECTED COMPLETION
Mission Needs Statement Validated	7 Aug 97	
Operational Requirements Document Approved	Jul 99	
Basis of Issue Plan Approved	Aug 00	
Army Concepts of Operations CONOPS	Apr 99	
Human Systems Integration Plan HSIP	30 Mar 01	
Integrated Logistics Support Plan	30 Mar 01	
Qualitative & Quantitative Personnel Requirements Information	Aug 00	
Test & Evaluation Master Plan	12 May 00	
Critical Operational Issues & Criteria		TBD
Operational Test		1Q FY02
OTRR 3		1Q, FY02
Milestone Decision		2Q, FY02
Field to 4 th ID CSS Assets		3Q FY02
Field to 1 st BDE, IBCT		2Q FY02
Instructor/Key Personnel Training		TBD
Materiel Fielding Plan		TBD
DTV Interactive Multimedia Instruction IMI		2Q FY02
Version 3.1 STRAP Input Due		3Q FY01
Version 3.1 STRAP Update		4Q FY01
Communications Handbook		1Q, FY02
Software Central Operations Manual		1Q, FY02
Software Users Manual		1Q, FY02
Training Test Support Package		4Q FY01

ANNEX D

Training Development Milestone Schedule

TRAINING DEVELOPMENT MILESTONE SCHEDULE - SHEET A			PAGE OF PAGES		REQUIREMENTS CONTROL SYMBOL	
SYSTEM: TC-AIMS II		ACAT-1	OFFICE SYMBOL ATCL-AS		AS OF DATE 15 May 01	
POINTS OF CONTACT		NAME		OFFICE SYMBOL		TELEPHONE
PM TC-AIMS II		Mr. Gary Winkler				DSN: 656-0525
USACASCOM CD:		Mr. Larry Perecko/Barry Richards		ATCL-SAL		DSN 687-2833/1352
USACASCOM CD:		Mr. Don Charity/Ralph Ocasio		ATCL-SAL		DSN 687-2829
USACASCOM TD:		Mr. Charles Johnson		ATCL-AS		DSN 539-1195
SUPPORTING PROPONENTS:						
CASCOM Trans Div		Mr. Arnold Shaw				DSN 539-1587
DPMO		Mr. John Metzgar				DSN 927-3878
DPMO		Mr. Larry Mack				DSN 927-3878
Deployment Systems Department (DDSD)		Mr. Ron Wilson/Mr. Rod Lackey				DSN 927-2039/1037
PEO-C3S		Mr. John Topping				
ITEM	DATE	RESPONSIBLE AGENCY/POC			TELEPHONE	
ORD		Larry Perecko/Barry Richards		CASCOM ISD	DSN 687-1352	
SMMP		Ken Taylor		CASCOM ISD	DSN 687-1272	
QQPRI		Larry Perecko		CASCOM ISD	DSN 687-2833	
BOIP		Larry Perecko		CASCOM ISD	DSN 687-2833	
ILSP		JPMO: Doug Garrell		JPMO	DSN 656-0527	
NET		JPMO: Doug Garrell		JPMO	DSN 656-0527	
COMMENTS:						

TRADOC Form 569-R-E, Aug 89

ANNEX E
RESOURCE SUMMARY
for the
8TH TRANSPORTATION BRIGADE
U. S. ARMY TRANSPORTATION SCHOOL(USATSCH)

1. SETT Personnel Requirements (arranged by PM):

a. There is a requirement for contractor personnel to support the SETT throughout the entire period of fielding. Classroom requirements for each training location consist of a minimum of two classrooms with the ability to support 20 screens per class. The PM will provide mobile training systems to the SETTs for use in conducting training at each training location. The PM must determine the total number of contract personnel required to support the fielding effort for all four services. Each training team consists of 6 contractors and 1 Government representative each will be required to provide technical support and conduct training for the various levels of system users (UMO, ICUMO, UMC, and System/Database Administrator). Training teams will also be required to support functional and technical conversion and monitorship requirements.

b. A Survey Team consisting of three personnel (1 Government, 1 functional KR, and 1 technical KR) will be required to conduct site surveys at each training location 120 days prior to the start of training. The survey team will conduct information briefings, finalize the Memorandum of Agreement (MOA), and identify status of preparations for the fielding prior to the arrival of the SETT.

2. Instructor Requirements:

a. An estimated six civilian (1- GS12 & 5 GS11) instructors will be required to receive contractor training in support of institutional training at 8th Brigade / USATSCH.

b. An estimated six enlisted instructors will be required to receive contractor training in support of institutional training at 8th Brigade / USATSCH.

3. Training Equipment Requirements:

a. Classroom Equipment Requirements:

(1) It is estimated that a minimum of 148 desktop workstations are required to conduct the very ambitious Program of Instruction (POI) described in this STRAP. These systems require a CD-ROM reader and a sound card to support the embedded multimedia training capability.

(2) Two file servers (small).

(3) Automatic Identification Technology (AIT) equipment requirements: 8 bar code printers (INTERMEC 3004CN), 8 wireless bar code printers (INTERMEC 3004AA), 4 TDA RF fixed interrogators (SAVI 0001), 4 reader/writer (INTERMEC 3017B), and 20 TDA RF hand held interrogators (SAVI 0015AA).

b. Mobile Training Team (MTT) Equipment Requirements:

(1) 17 each TC-AIMS II Laptop computers

(2) 02 each Laser Printers

(3) 01 each TDA AIT Suites

(4) 01 each Bar Code Printer

(5) 01 each Wireless Bar Code Printer

(6) 01 each TDA Portable Interrogator

(7) 01 each OMC Card Reader

(8) 02 each Hubs

(9) Hardened carry away cases for the equipment to be transported in will be needed.

c. An appropriate number of associated equipment (i.e., file servers, communications servers, and peripheral equipment (e.g., printers, tape back-up systems, CD ROM decks, etc.)) need to be considered and updated regularly. The precise requirement will be identified in greater detail as the system is developed and documented on the Basis of Issue Plan (BOIP).

4. Expendable Supplies:

USATSCH will be required to fund for and supply expendable supplies for training. This will include paper, printer ribbons, printer toner, magnetic media, etc. Approximately 100 AIT tags are recommended to support AIT portions of the training.

ANNEX F REFERENCES

DOD Directive 5000.1, Defense Acquisition, 1996.

DOD Regulation 5000.2, Mandatory Procedures for Major Defense Acquisition Programs (MDAPs) and Major Automated Information System (MAIS) Acquisition Programs, dated 15 March 1996.

DOD-STD-7935A, DOD Automated Information Systems (AIS) Documentation Standards, 31 October 1988 (superseded by MIL-STD-498).

MIL-STD-498, Software Development and Documentation, 5 December 1994.

MIL-STD-1379D, Performance Specification Training Data Products, dated 5 December 1990.

MIL-HDBK-1379-1, Department of Defense Handbook, Guidance for Acquisition of Training Data Products and Services.

MIL-HDBK-1379-2, Instructional Systems Development/Systems Approach to Training and Education, dated 31 October 1988.

MIL-HDBK-1379-3, Development of Interactive Multimedia Instruction (IMI), dated 31 January 1997.

MIL-HDBK-1379-4, Department of Defense Handbook, Glossary of Training Terms.

MIL-PRF-29612, Training Data Products, 29 September 1996. (supersedes MIL-STD-1379D).

Federal Acquisition Regulation.

Department of the Army Technical Architecture (ATA), version 4.5, dated 12 November 1996.

Department of the Army Pamphlet 25-4, Information Systems Technical Documentation, 10 April 1991.

Department of the Army Pamphlet 73-1, Test and Evaluation Guidelines

AR 25-30, The Army Integrated Publishing and Printing Program, 28 February 1989.

AR 73-1, Test and Evaluation Policy.

AR 350-10, Management of Army Individual Training Requirements and Resources.

AR 350-35, Army Modernization Training.

AR 602-2, Manpower and Personnel Integration (MANPRINT) in the System Acquisition Process.

Technical Bulletin 18-112, Army Automation Training Management for ADP Systems.

TRADOC Reg. 350-70, Training Development Management, Processes and Product.

TRADOC Reg 351-4, Job and Task Analysis, 9 March 1979.

TRADOC Pam 350-30, Interservice Procedures for Instructional Systems Development.

TRADOC Pam. 350-70-1, A Guide for Producing Collective Training Products.

TRADOC Pam. 350-70-2, Multimedia Courseware Development Guide.

TRADOC Pam 351-13, Systems Approach to Training-Analysis, 10 December 1990.

TRADOC Pam 71-9, Requirements Determination, dated 19 March 1997.

AMC Pam 310-13, Preparation of Plans for Technical Manual Verification.

Research Product 88-12, US Army Research Institute for the Behavioral and Social Sciences, Implementing Embedded Training (ET): Volume 1-10, dated April 1988.

Research Product 96-06, US Army Research Institute for the Behavioral and Social Sciences, A guide for Early Embedded Training Decisions, dated July 1996.

ANNEX G
COORDINATION SUMMARY FOR STRAP VERSION 1.0

AGENCY	CONCUR AS WRITTEN	COMMENT ACCEPTED	DISCUSSION
US Army Aviation Center & Fort Rucker (DOTDS and DCD)	X		
Academy of Health Sciences	X		
US Army Special Operations Command	X		
US Army South	X		
US Army Transportation School		YES	
Army National Guard Bureau		YES	
HQDA,ODCSLOG		YES	Except: #5: Although a requirement for ET is not yet identified, it is the only way to ensure success and will be identified as a requirement. #12: Issue of correct number of work stations for the school is being documented
US Army Field Artillery School		YES	
US Army Military Police School	X		
US Army Finance School	X		
US Army Signal Command		NO	BNCOC and ANCOG courses are finite in length with a set curriculum. TRADOC has mandated course lengths will not grow. Time is not available to add 70 hours to each of these courses
US Army Chemical School	X		
US Army Engineer School		YES	
USARPAC ODCSLOG	X		
CASCOM, Training Directorate	X		

AGENCY	CONCUR AS WRITTEN	COMMENT ACCEPTED	DISCUSSION
US Army Signal Center & Fort Gordon	X		
US Army Chaplain Center & School	X		
Information Technology Solutions		YES	
PM ILOGS		YES	Except: This is the Army Annex to the Joint training plan; therefore references to other Services were not included.
US Army Computer Science School	X		

ACTIVITIES THAT DID NOT RESPOND

US Army Europe and Seventh Army
 US Army Forces Command
 US Forces Korea, Eighth US Army
 US Army Japan
 US Army Training and Doctrine Command
 US Army Intelligence Center and Fort Huachuca
 US Army Information Systems Software Development Center Lee
 US Army Reserve Command
 US Army Ordnance Center and School
 US Army Air Defense Artillery School
 US Army Armor Center and Fort Knox
 US Army Infantry School
 US Army Medical Department Center and School
 US Army Ordnance Missile and Munitions Center and School
 US Army Quartermaster Center and Fort Lee
 US Army Sergeants Major Academy
 US Army Aviation Logistics School
 US Army Logistics Integration Agency

* From Jul 97 Staffing

ANNEX G
COORDINATION SUMMARY FOR STRAP VERSION 2.0

AGENCY	CONCUR AS WRITTEN	COMMENT ACCEPTED	DISCUSSION
CASCOM, Information Systems Directorate			
Deployment Planning Modernization Office (DPMO), Fort Eustis, VA		YES	
Deployment Systems Department (DDSD), Fort Eustis, VA		YES	
U. S. Army Reserve			
US Army Transportation School		YES	
HQ, ODCSLOG			
U. S. Forces Command			
U. S. Computer Science School			
Army National Guard Bureau		YES	

ANNEX H

ACRONYMS

AALPS	Automated Air Load Planning System
AC	Active Component
AI	Artificial Intelligence
AIS	Automated Information System
AIT	Advanced Individual Training
ATB	Army Training Base
AMIM	Army Modernization Information Memorandum
ASI	Additional Skill Identifier
ATCCS	Army Tactical Command and Control System
BOIP	Basis of Issue Plan
C3I	Command, Control, Communications and Intelligence
CAI	Computer Assisted Instruction
CASCOM	Combined Arms Support Command
CBI	Computer Based Instruction
CD-ROM	Compact Disk - Read Only Memory
CMOS	Cargo Movement Operations System
CONUS	Continental United States
COTS	Commercial Off-The-Shelf
CSSAMO	Combat Service Support Automation Management Office
CSSCS	Combat Service Support Control System
DAMMS	Department of the Army Movement Management System
DDN	Defense Data Network
DoD	Department of Defense
DTS	Defense Transportation System
DTT	Doctrine and Tactic Training
EDI	Electronic Data Interchange
EM	End User Manual
ET	Embedded Training
GOTS	Government Off-the-Shelf
GTN	Global Transportation Network
ICODES	Integrated Computerized Deployment System
ICS3	Integrated Combat Service Support System
IKPT	Instructor and Key Personnel Training
ITO	Installation Transportation Officer
ITV	In-Transit Visibility
JPMO	Joint Program Management Office
LAN	Local Area Network
LOGAIS	Logistics Automated Information System

LP	Lesson Plan
LSA	Logistics Support Analysis
MAGTF	Marine Corps' Air Ground Task Force
MANPRINT	Manpower & Personnel Integration
MDSS II	(MAGTF) Deployment Support System II
METL	Mission Essential Task List
MOA	Memorandum of Agreement
MOS	Military Occupational Specialty
MT	Mini-Tutorial Module
MTT	Mobile Training Team
NGB	National Guard Bureau
NETP	New Equipment Training Plan
NETT	New Equipment Training Team
OCONUS	Outside the Continental United States
OJT	On-the-Job Training
OPTEC	Operational Test and Evaluation Command
OTRE	Operational Test Readiness Evaluation
OTRS	Operational Test Readiness Statement
PC	Personal Computer
PDN	Physical Distribution Network
PE	Practical Exercise
PFTEA	Post Fielding Training Effectiveness Analysis
PM	Program/Project/Product Manager
PM ILOGS	Program Manager Integrated Logistics Systems
POI	Program of Instruction
PSS	Performance Support System
RC	Reserve Component
RGL	Reading Grade Level
SEDRE	Sea Emergency Deployment Readiness Exercise
SET	System Extension Team
SETT	System Extension Training Team
SMMP	System MANPRINT Management Plan
STAMIS	Standard Army Management Information System
STRAP	System Training Plan
TAV	Total Asset Visibility
TBD	To Be Determined
TC ACCIS	Transportation Coordinator Automated Command and Control Information System
TC-AIMS II	Transportation Coordinators' Automated Information for Movements System II
TDA	Table of Distribution and Allowances

TEMP	Test Evaluation Master Plan
TOE	Table of Organization and Equipment
TOPNS	Theater of Operations
TRADOC	Training and Doctrine Command
TSM	Task Selection Matrix
TSR	Training Support Requirement
TTHS	Training, Transient, Holding School
TTSP	Training Test Support Package
UMO	Unit Movement Officer
USAR	United States Army Reserve
USATSCH	United States Army Transportation School

ANNEX I
TRAINING AIDS, DEVICES, SIMULATORS,
AND SIMULATIONS (TADSS) REQUIREMENTS

1. The primary method for TC-AIMS II training is instructor training supplemented by IMI. This includes various features incorporated within the enterprise system such as Help, Coaches, and Wizards. All course instruction will leverage these features to the maximum extent possible. The sole hardware used for NET and institutional training will be the actual TC-AIMS II device. No additional hardware will be required.
2. Also, web-downloadable DTV modules will be available for sustainment training. These will provide a self-tutor program to aid the individual's learning progress and will be scenario driven to provide a complete understanding of the software. This courseware will be able to be operated both on the TC-AIMS II hardware and on other compatible type PC devices.
3. An additional training opportunity is the planned CSS Virtual Operations, Planning and Rehearsal Support Facility. This STRICOM/CASCOM initiative will help to fill the current void in CSS collective training in support of the Warfighter's operational mission. It will provide a broad range of benefits including advanced collective training in CSS tasks through a synthetic operational environment to stimulate and support power projection planning and support for the exploration and analysis of future CSS operational concepts and systems. The training laboratory is planned to commence operations in January 2001 at Ft. Lee, VA.